

03/07/14    Agenda:

- Warm Up Problem
- **Turn in any late work!**
- Review Special Quads Graphing Carousel
- Review - Sections 8.1 - 8.6
- Homework
  - Review Packet
    - Review Monday
    - Will be collected before the test

Unit Review: Sections 8.1 - 8.6

March 7, 2014

**Test TUESDAY & WEDNESDAY!!!**

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8.1 - Find Angle Measures in Polygons

**Targets 8A & 8B**

- Sum of interior angles
  - Sum of exterior angles
  - Regular polygons
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8.2 - Properties of Parallelograms

**Target 8C**

- Properties of a Parallelogram
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8.3 - Show a Quadrilateral is a Parallelogram

**Target 8D**

- Prove a Quadrilateral is a Parallelogram
  - Graph 4 points, prove the figure is a Parallelogram
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8.4 - Properties of Rhombuses, Rectangles, & Squares

**Target 8E**

- Properties of Rhombuses
  - Properties of Rectangles
  - Properties of Squares
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8.5 - Properties of Trapezoids & Kites

**Target 8E**

- Properties of Kites
  - Properties of Trapezoids
  - Properties of Isosceles Trapezoids
- 

8.6 - Special Quadrilaterals in the Coordinate Plane

- Graph 4 points & identify the figure

**Target 8F**

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**BIG IDEAS***For Your Notebook***Using Angle Relationships in Polygons**

You can use theorems about the interior and exterior angles of convex polygons to solve problems.

**Polygon Interior Angles Theorem**

The sum of the interior angle measures of a convex  $n$ -gon is  $(n - 2) \cdot 180^\circ$ .

**Polygon Exterior Angles Theorem**

The sum of the exterior angle measures of a convex  $n$ -gon is  $360^\circ$ .

**Using Properties of Parallelograms**

By definition, a parallelogram is a quadrilateral with both pairs of opposite sides parallel. Other properties of parallelograms:



- Opposite sides are congruent.
- Opposite angles are congruent.
- Diagonals bisect each other.
- Consecutive angles are supplementary.

**Ways to show that a quadrilateral is a parallelogram:**

- Show both pairs of opposite sides are parallel.
- Show both pairs of opposite sides or opposite angles are congruent.
- Show one pair of opposite sides are congruent and parallel.
- Show the diagonals bisect each other.

**Classifying Quadrilaterals by Their Properties**

Special quadrilaterals can be classified by their properties. In a parallelogram, both pairs of opposite sides are parallel. In a trapezoid, only one pair of sides are parallel. A kite has two pairs of consecutive congruent sides, but opposite sides are not congruent.

